



Coming together is a beginning. Keeping together is progress. Working together is success.

Henry Ford



Context Sensitive Committee Goals

Goals identified in Charter:

- ☑ Identify Context
- Identify Needs
- Develop Evaluation Criteria
- Identify Conceptual Solutions
- Screen Solutions and Identify Preliminary Alternatives

--Context Sensitive Committee Charter: February 2005

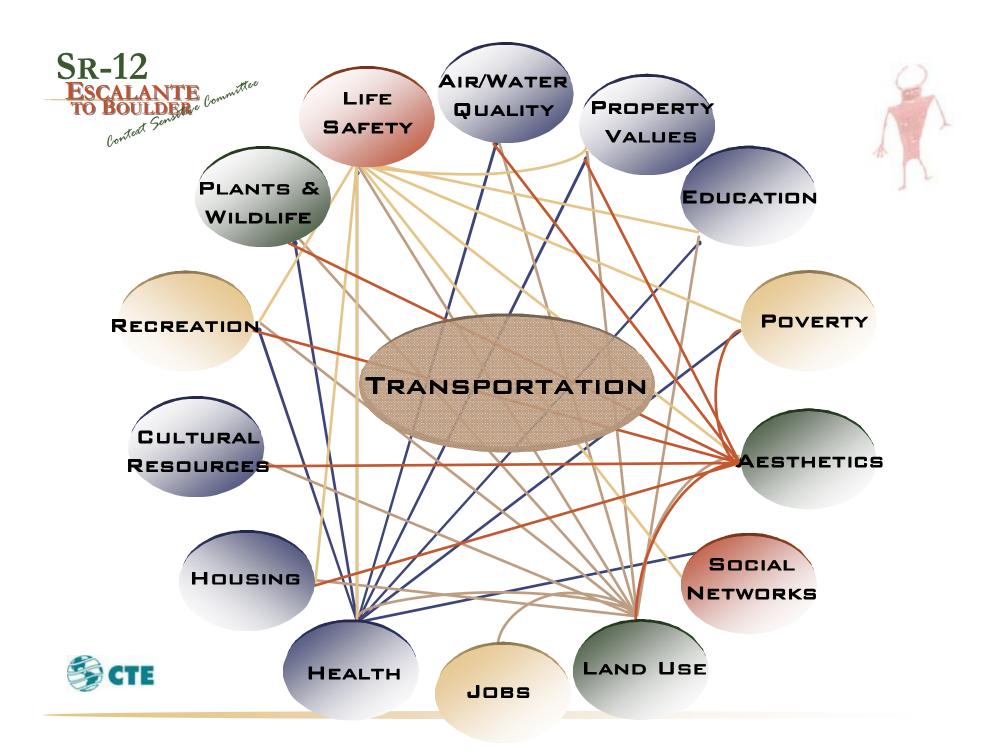




Guiding CSS Principles

- Address the Transportation Need
- Be an Asset to the Community
- Be Compatible with the Natural and Built Environments









Quality Decisions

- Effective decision-making results in appropriate solutions to the identified problems
- Efficient decision-making gets the right solution the first time through the process





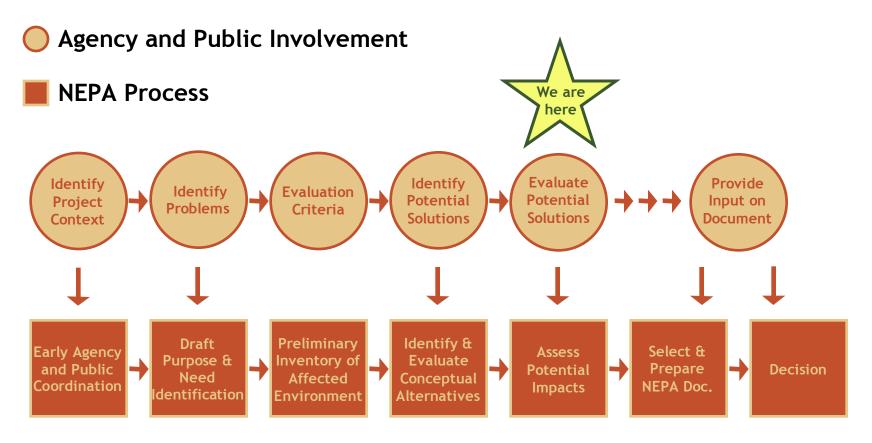
Define the Problem and Vision

- Key product of problem definition
- > Describes desired **outcomes** for:
 - Transportation Need
 - Being a Community Asset
 - Compatibility with Human and Natural Environment
- Creates a **common mental map** for success





SR 12 Project Approach







Project Visioning

Meeting #1 Context and Needs



Contribute to a future for the young

A project the communities are proud of

Meet the traffic demands

Enhance experiences

Make sure the right thing gets done

The best for the community

Maintain visual appeal

Comprehensive approach

Maintain character of the road

A safe and even more beautiful road

Travel safety
across
Honor the history
and culture of
the communities

SR-12
Project Vision
Have we captured your vision?

Limit

changes

Addresses the vision of each group

Make a little safer

Take time to do it better

Some improvements

Maintain SR-12 as the lifeblood of the county

Don't

Do only what is road too absolutely much necessary

Grow to fit increasing traffic



TE Committee Quality of Light

Quiet

Experience

Creamery Route



Canyons



Ranchers

More than a Road

History

Museum

Beautiful





Awe

What is the Context of the SR-12 area?



Slow

Archaeology

Dangerous

Mule Trails

Speechless

Home

Petroglyphs

Walk to **Experience**



Tourism

Scenic

Emotional

See . . . So Far

Mountains

Great Driving

Cultural Values





Project Visioning

Meeting #2 Needs and Evaluation Criteria





Identified by Group 1: Rick Torgerson, Jim Catlin, Sharol Bernardo

- Make sure there is enough height clearance for large vehicles under the dark red cliff near Calf Creek. The perception is that it is not high enough and large vehicles are darting into the other lane
- Mitigate extreme speed changes. Make speed transition zones for areas between a high to low speed change
- Use an aesthetic approach to structures, walls, barriers, etc. Lower the height of the barriers
- Need for parking restrictions
- Maintain visual appeal for highway and non-highway users
- Create uphill bicycle pullouts/lanes (where conducive)
- Create passing pullouts/lanes
- Put the utilities underground
- Create better/more interpretive sites





Identified by Group 2: John Mavor, Keith Gailey, Sue Mosier, Allysia Angus

- Pullouts for hikes / recreation parking (Move parked vehicles off the road)
- Safe passage for cyclists
- Fix Calf Creek bridge
- Fix where pipe / barriers are supporting road
- Speed creative and effective deterrents depending on locations (*Slow down traffic in certain locations*)
- Address cattle / wildlife crashes
- Right-of-way sort this out





Identified by Group 3: Laurel Hagen, Vard Coombs, Joe Gregory

- Turnouts near scenic or slow areas. (Maybe a foot path along Hogsback)
- Hogsback safety
- Opportunities for passing
- Make improvements with minimal impact
- Force people to slow down (signs, bumps, etc.)
- Rebuild Calf Creek Bridge
- Bike safety
- Use universal signage (i.e. graphic depicting a car with rocks falling on it) for non-English speaking tourists and visitor's
- Do not make it look over engineered





Identified by the public

- Protect archaeological and paleontological sites (i.e. dinosaur tracks)
- Reduce speed
- Evaluate safe ingress and egress (specifically at businesses and trailheads)
- Provide maintenance notification
- Widen in some areas for safety
- Improve aesthetics of (safety) barriers
- Bicycle safety
- Safety signing (ice, deer, cows, etc.)







Project Vision Defined by CSC	Context Sensitive Objectives
 A project communities are proud of The best for the community Maintain SR-12 as the life blood of the community Contribute to a future for the young Honor the history and culture of the communities 	 Preserve the history Contribute to the economics and the culture of the community
 Meet the traffic demands Grow to fit increasing traffic Some improvements Make a little safer Travel safely across A safe and more beautiful road 	 Meet the varied transportation needs Improve safety
 Do only what is absolutely necessary Limit changes Prevent conflicting uses in the area 	Meet the needs of the natural environment
Maintain character of the roadEnhance experiences	 Maintain the character of the road
■ Maintain visual appeal	Maintain and enhance the visual appeal



Context Sensitive Objectives



Comments Received from Public	Context Sensitive Objectives
 Better maintenance Road needs to be resurfaced Concern regarding road conditions Maintenance should be good quality and subtle Identify long-term solutions for maintenance Eliminate need for frequent small maintenance projects	Improve ability to perform adequate maintenance operations appropriate to place.
Tourist traffic is difficult Slow moving trucks and RVs Summer traffic is really heavy for the size of the road There is a safety problem when it comes to bicycles	 Balance the needs of the different modes of transportation
Turnouts are needed No more ugly barriers Improvements need to be sensitive in order to preserve landscape quality Provide an alternative route for traffic to avoid Calf Creek and reduce traffic in Boulder	Incorporate safety improvements that are consistent with the context of the roadway and environment.







Comments Received from Public (cont'd.)		Context Sensitive Objectives		
•	Preserve Calf Creek	 Preserve water resources 		
•	Use science, research, and facts in making decisions.	Incorporate science, research, and facts into an open decision-making process		
:	Address safety along SR-12 Other areas along SR-12 need improvements Dangerous curves located near Boulder Danger from cattle on the road	■ Improve Safety on SR-12		





Project Visioning

Meeting #3 Preliminary Alternative Development





Critical Review Elements

- 1. Posted Speed
- 2. Travel Lane Widths
- 3. Shoulder Widths
- 4. Horizontal Alignments (curves on roadway)
- 5. Vertical Alignments (crests and valleys on roadway)
- 6. Grade of Roadway (how steep is the roadway)
- 7. Sight Distance (how far ahead of me can I see)



Critical Review Elements (Cont.)

- 8. Cross Section (slope on the side of the roadway, obstructions close to roadway)
- 9. Superelevation (how steep is the bank on a curve)
- 10. Structural Capacity (Structural Rating of bridge)
- 11. Vertical Clearance (overhead obstructions)
- 12. Bridge Width
- 13. Crash Data
- 14. Pavement Conditions

SR-12
ESCALANTE Committee
TO BOULDER



CRITICAL						
ROADWAY ELEMENT	AASHTO	UDOT	U.S. Forest Service	UDOT's 3R's	AASHTO Bicycle	SR-12
os					10101110 010,010	
Rural Mountainous Arterial	c	C	n/a	n/a		
Design Speed (mph)						
SR-12 (Escalante to Boulder)	35-60 (posted)			Posted or advisory speed		
Thru Lane (30-35 mph)	12	12	11 (30 mph)	Desire lase width to a reset UDOX	14' outside lane if no shoulder. 15'	
Thru Lane (40-60 mgh)	12	12	12 (50 mph)	Design lane width to current UDOT Design Standards	preferred where there are steep grades or	
Passing Lane	12	12	n/a	Design diameters	where grates reduce useable width (with	
Climbing Lane	12	12	n/a		no shoulder); then consider striping	
					shoulder	
Shoulder Widths (ft)			8			
Thru Lane (Rural Arterial) Thru Lane (Rural Road)	2' (min.), 8' (desirable)	2' (min.), 8' (desirable)	n/a	4 (in place), 8 (desirable)	4' minimum clear of rumble strips. 5' if	
Thru Lane (Rural Road)	2' (min.), 8' (desirable)	2' (min.), 8' (desirable)	n/a	4 (in place), 8 (desirable)	guardrail or barrier. Wider shoulders	
Minimum shoulder	2	2	1-2		desirable where x>50 mph.	
Passing Lane	2' (min.), 8' (desirable)	2' (min.), 8' (desirable)	n/a	n/a		
Climbing Lane	2' (min.), 8' (desirable)	4' (min.), 8' (desirable)	n/a	n/a		
forizontal Alignment						
The state of the s						
30 mph	R _{ne} = 231'	R _{res} = 231°	R _{mir} = 110' - 270'	If curve is within 15 mph of design speed.		
35 mph	R _{ran} = 340'	R _{oss} = 340'	R _{ee} = 150' - 420'	Mitigate super elevation for existing		
	R _{max} = 485°	R _{run} = 485°	R _{min} = 200' - 500'	substandard design elements. Mitigate or		
40 mph *				reconstruct horizontal curve to current		
45 mph *	R _{min} = 643'	R _{rot} = 643'	R _{em} = 250' -600'	UDOT standards based on Cost/Benefit		
50 mph *	R _{max} = 833'	R _{ran} = 833°	R _{ess} = 310' - 800'	analysis**		
55 mph	R _{rien} = 1060'	R _{ren} = 1060*	n/a			
60 mph	R _{ren} = 1330'	R _{ren} = 1330'	n/a			
HSO(Horizontal Sightline Offset)	Exhibit 3-53	Exhibit 3-53	n/a	n/a		
			R = function of velocity, superelevation,	"Mitigation includes traffic control		
			friction factor. Minimum 50' for 15 mph or	devices, shoulder widening, curve		
Not control occupie and ideal for inferior			less	widening, appropriate super elevation,		
Not posted speeds, provided for infor Vertical Alignment	mation only			pavement friction improvement		
Crest	Exhibit 3 - 71	AASHTO Exhibit 3 - 71	L = (greater of) 3V or 50'			
Sag	Exhibit 3 - 74	AASHTO Exhibit 3 - 74	L = (greater of) AV*2 or 50'	If curve is within 20 mph of design speed.		
	Economic Transport	74-2011 0 201100 2 - 14	E Grand Synt E or so	Minor design improvements. Otherwise		
				reconstruct.		
				reconstruct.		
		25				
Minimum	0.5%	0.3%	1% on soil aggregate	Existing grades to remain unless in		
Minimum Maximum (30 mph)	7 - 12%	7 - 12%	6 - 12%	Existing grades to remain unless in conjunction with vertical curve		
Minimum Maximum (30 mph) Maximum (35 mph)	7 - 12% n/a	7 - 12% n/a	6 - 12% n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider fastening		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (40 mph *)	7 - 12% n/a 8%	7 - 12% n/a 8%	6 - 12% n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider fathering grades to provide climbing takes or run		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (40 mph *) Maximum (45 mph*)	7 - 12% n/a 8% 7%	7 - 12% n/a 8% 7%	6 - 12% n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (40 mph*) Maximum (46 mph*) Maximum (50 mph*)	7 - 12% n/a 8% 7% 7%	7 - 12% n/a 8% 7% 7%	6 - 12% n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider fathering grades to provide climbing takes or run		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (45 mph*) Maximum (45 mph*) Maximum (50 mph*) Maximum (50 mph*)	7 - 12% n/a 8% 7% 2% 6%	7 - 12% n/a 8% 7% 7% 6%	6 - 12% n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (40 mph *) Maximum (45 mph*) Maximum (50 mph*)	7 - 12% n/a 8% 7% 7%	7 - 12% n/a 8% 7% 7%	6 - 12% n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph) Maximum (46 mph*) Maximum (46 mph*) Maximum (50 mph*) Maximum (55 mph) Maximum (55 mph) Maximum (50 mph) Not posted speeds, provided for infor	7 - 52% PNs BNs 2% 2% 6% 6% 6%	7 - 12% n/a 8% 7% 7% 6%	6 - 12% n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (45 mph') Maximum (46 mph') Maximum (50 mph') Maximum (50 mph') Maximum (50 mph) Maximum (50 mph) Not posted speeds, provided for infortight	7 - 52% PNs BNs 2% 2% 6% 6% 6%	7 - 12% n/a 8% 7% 7% 6%	6 - 12% n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (40 mph) Maximum (45 mph) Maximum (50 mph) Minimum (50 mph	7 - 12% nia 8% 7% 7% 6% 6% 6%	7 - 12% nia 8% 7% 7% 6% 6%	6 - 12*16 N/a N/a N/a N/a N/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Masimum (30 mph) Masimum (35 mph) Masimum (35 mph) Masimum (45 mph) Masimum (56 mph) Masimum (56 mph) Masimum (56 mph) Masimum (56 mph) Masimum (50 mph) Masimum (50 mph) Masimum (60 mph) Masimum (60 mph) Minimum (60 mph) Minimum (60 mph)	7 - 12% Pla B% 7% 7% 6% 6% 6% 6%	7 - 12% n/a 8% 7% 7% 6% 6%	6 - 12*% n/a n/a n/a n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (30 mph) Maximum (35 mph) Maximum (45 mph) Maximum (46 mph') Maximum (56 mph') Maximum (56 mph') Maximum (56 mph) Maximum (50 mph) Maximum (50 mph) Maximum (50 mph) Minimum (50 mph) Minimum (30 mph) Minimum (30 mph) Minimum (30 mph)	7 - 12% No. 8% 7% 7% 6% 6% 6% 6%	7 - 12% n/a 8% 7% 7% 6% 6%	6 - 12% n/a n/a n/a n/a n/a n/a n/a n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph *) Maximum (45 mph *) Maximum (45 mph *) Maximum (55 mph) Maximum (55 mph) Maximum (55 mph) Maximum (55 mph) Not posted speeds, provided for infortight Distance Ropping Sight Distance Minimum (35 mph)	7 - 12% n/s 8% 7% 7% 6% 6% 6%	7 - 12% n/a 8% 7% 6% 6% 6% 200 250 305	6 - 12% n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph*) Maximum (46 mph*) Maximum (50 mph*) Maximum (50 mph*) Maximum (50 mph) Maximum (50 mph) Maximum (50 mph) Maximum (50 mph) Minimum (50 mph*) Minimum (40 mph*)	7 - 12% No. 29% 8% 7% 6% 6% 6% 6% 6% 250 250 306 380	7 - 12% n/a	6 - 12% n/a n/a n/a n/a n/a n/a n/a n/a n/a 180 225 220	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
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Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph") Maximum (46 mph") Maximum (50 mph") Maximum (50 mph") Maximum (50 mph) Minimum (50 mph) Minimum (35 mph) Minimum (45 mph") Minimum (55 mph") Minimum (55 mph") Minimum (55 mph")	7 - 12% n/a 8% 7% 7% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6	7 - 12% n/a	6 - 12% n/a n/a n/a n/a n/a n/a n/a n/a n/a 225 227 2320 335 n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph*) Maximum (45 mph*) Maximum (45 mph*) Maximum (55 mph) Minimum (35 mph) Minimum (35 mph*) Minimum (40 mph*) Minimum (45 mph*) Minimum (55 mph)	7 - 12% Nile 8% 7% 7% 6% 6% 6% 6% 200 250 306 360 425	7 - 12% n/a 8% 27% 7% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6%	6 - 12% n/a n/a n/a n/a n/a n/a n/a n/	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
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Minimum Maximum (35 mph) Maximum (35 mph) Maximum (45 mph*) Maximum (45 mph*) Maximum (45 mph*) Maximum (55 mph) Minimum (35 mph) Minimum (35 mph*) Minimum (40 mph*) Minimum (45 mph*) Minimum (55 mph)	7 - 12% 1/4 8% 7% 7% 6% 6% 6% 6% 6% 6% 5% 100 250 306 425 496 570	7 - 12% n/a	6 - 1216 n/a	Existing grades to remain unless in conjunction with vertical curve reconstruction. Consider flattening grades to provide climbing lanse or run away truck ramps if high accident rates		
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Project Visioning

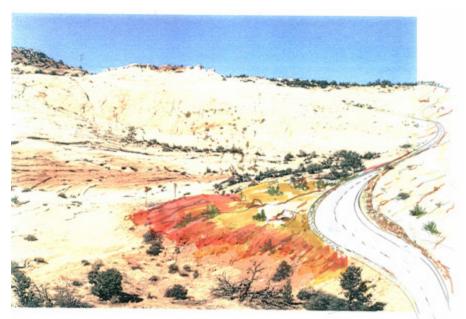
Meeting #4 Conceptual Solutions and Evaluation Process



Conceptual Solutions







Horizontal Curves at the Bottom of Head of the Rocks



Conceptual Solutions







Vertical Curves at the Bottom of Head of the Rocks



Conceptual Solutions







HORE BACK - BY LEWIL LAND W BLED DOTH - MINIST TO THE DWGT.



The Hogsback



Context Sensitive Committee Goals

Goals identified in Charter:

- ☑ Identify Context
- Identify Needs
- Develop Evaluation Criteria
- Identify Conceptual Solutions
- Screen Solutions and Identify Preliminary Alternatives

--Context Sensitive Committee Charter: February 2005





Project Visioning

Meeting #5
Evaluation of
Conceptual Solutions





Meeting #5 Project Visioning

- Review Updates Since Last Meeting
- Re-Visit Conceptual Solutions
- Identify Preliminary Alternatives
- Future of the CSC





Updates Since Last Meeting Project Team Committee Members







- > Travel Speed at Night
- Average Daily Traffic Estimates
- > Accident Rates
- Bike Path Standards



Conceptual Ideas



- Received over 450 Ideas
- Project Team Consolidated Ideas
 - Five Major Categories
 - Multiple Options



Conceptual Ideas Five Categories



- Do Nothing
- Educational Improvements
- Regulatory Actions
- Build Bypass
- ➤ Improve Existing SR 12



Conceptual Ideas: Not To Be Carried Forward



> Bypass – not feasible



Conceptual Ideas: To Be Carried Forward



- Do Nothing
- Educational Improvements
- Improve Existing SR-12 Solutions
 - Improve signing and striping
 - Provide centerline pavement treatment
 - Coordinate with agencies to improve access at interpretive sites
 - Obtain Right-of-Way
 - Improve maintenance activities



Conceptual Ideas: For Discussion



- Regulatory Actions
 - Speed Limit Modification
 - Speed Limit and Parking Enforcement
 - Bicycle Restriction
- Improve Existing SR-12 Clarify use based on context
 - Widen Roadway Shoulder
 - Accommodate Bicycles
 - Provide Passing Opportunities
 - Improve access at intersections
 - Improve animal control option
 - Improve speed transition option
 - Improve geometrics option
 - Improve clear zone option



Group Exercise Summary



- > Top Five Concerns
- Conceptual Ideas to Carry Forward



Phase II Milestones November 2005 - October 2006



- Develop Preliminary Alternatives
- Identify Alternatives for Detailed Studies
- Prepare Detailed Studies of Environmental Resources
- Define Environmental Impacts due to Alternatives
- Determine Mitigation Requirements (if needed)
- Prepare Draft Environmental Document
- Hold Public Hearing
- Select Preferred Alternative
- Prepare Final Environmental Document

Public Involvement will be ongoing throughout Phase II.



SR 12 Project Milestones: Phase II

Context Sensitive Committee/Public Meetings



Public Involvement





Thank You!





Problems to be Addressed

- Insufficient right-of-way to maintain the road
- Calf Creek Bridge in poor condition
- Deteriorated roadway surface
- Instability of side slope / shoulder
- Difficulty maintaining drainage system (inlet and outlet)
- Inadequate and / or lack of protection of side slopes
- Lack of material borrow sites and disposal sites
- Unsafe condition due to speed differential (between different users)
- Variable geometrics (horizontal, vertical, clear zone, sight distance, vertical clearance)
- Inadequate speed transition zones
- Lack of area for adequate turnaround

SR-12 ESCALANTE Committee TO BOULDER Committee



Problems to be Addressed

- Insufficient distance to stop or avoid an unexpected object (rocks)
- Excessive speed accidents
- Excessive accidents involving animals
- Conflicts of moving cars at intersections (Hole-in-the-Rock-Road, Calf Creek Campground, Boynton Overlook, Boulder dump)
- Perception of insufficient vertical clearance
- Lack of passing ability for different modes of transportation
- Lack of roadway width to accommodate multiple users (including bikes)
- Tourist traffic and pedestrians impeding traffic
- Roadside Parking outside of designated areas